

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 4999000.00

Name of Work: Detailed Estimate for the work of Improvements to drains and providing Asphaltting to main and cross roads of yelahanka new town 5th phase in ward No- 02 of yelahanka Sub division,

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications, MORTH chapter 3, No. 138/ Item No. 19.1/ PWD SR 2014-15	cum							
	berm cutting		2	200.00	1.50	0.20	120.00		
	for widening portion		2	200.00	2.00	0.35	280.00		
	dosilting of existing drain		1	110.00	0.60	0.40	26.40		
							426.40	75.60	32236.00
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	76.60							
2	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, slacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No. KBS 2.1(a) : 2.3.5, No. 5/ Item No. 2.3/ PWD SR 2014-15	cum							
	for RCC drain		1	150.00	1.00	0.90	135.00		
			1	40.00	1.00	0.90	36.00		
			2	70.00	1.00	0.90	126.00		
	culvert		5	7.00	1.50	1.00	52.50		
							349.50	176.04	61526.00
	Basic Rate	163.00							
	Area Weightage @ 8%	13.04							

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	178.04	✓						
3	KSRB 100-1 Loading and unloading of stone aggregates / sand / kanker / Moorum / soil KSRB M100-1 Placing tipper at loading with front end loader dumping turning for return trip excluding time for hauled and return trip complete as per specification item No 17.1 page 130 and KSRB M100.4.1 cost of haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (item No 17.1 Page 130 (SR 2014-15)	cum							
				Vide Item No. 142			775.90	79.10	61373.00
	Basic Rate for loading and unloading	63.00	✓						
	Basic Rate for Haulage upto 4.00 km = 1.28 X 2 X 4	10.24	✓						
		73.24	✓						
	Area Weightage @ 8%	5.86	✓						
	Total	79.10	✓						
4	KSRB-4.1.2 Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement at 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HQM of machinery, curing complete as per specifications. Specification No. KSS 4.1.4.2, No. 12/ Item No. 4.2/ PWD SR 2014-15	Cum							
	for rec drain		1	150.00	0.90	0.15	20.25		
			1	40.00	0.90	0.15	5.40		
			2	70.00	0.90	0.15	18.90		
	culvert		5	7.00	1.50	0.15	7.88		
							52.43	5064.12	265486.00
	Basic Rate	4688.00	✓						
	Area Weightage @ 8%	375.12	✓						
	Total	5064.12	✓						

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 4.2.2 Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 525kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.450cum with superplasticiser @ 3litrs conforming to IS9103-1999 Refirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation, plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls (any thickness) including attached plaster, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KSS 4.1.4.6, No. KSS 4.1.4.6, No. 13/ Item No. 4.11/ PWD SR 2014-15	Cum							
	for rcc drain bed		1	150.00	0.90	0.15	20.25		
	side walls		2	150.00	0.15	0.80	36.00		
			1	40.00	0.90	0.15	5.40		
			2	40.00	0.15	0.80	9.60		
			2	70.00	0.90	0.15	18.90		
			4	70.00	0.15	0.80	33.60		
	for culvert		5	7.00	1.20	0.30	12.60		
	side walls		10	7.00	0.30	0.90	18.90		
	deck		5	7.00	1.20	0.30	12.60		
	coping for existing drain		1	110.00	0.45	0.10	4.95		
							172.80	6065.28	1048080.00
	Basic Rate	5616.00	✓						
	Area Weightage @ 8%	449.28	✓						
	Total	6065.28	✓						
5	KSRB 4.9.2 providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KSS 4.6.3 Page No. 19/ Item No. 4.46/ PWD SR 2014-15	Quintal							

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	90 kg/cum for culvert		0.900	167.85			151.07		
				167.85			151.07	7254.80	1095946.00
	Basic Rate	7254.80							
7	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc. and removal of form work for vertical surface such as walls at any thickness, attached pilasters, buttresses, buttresses plinth and string course including cost of all materials, labour complete as per specifications. Specification NO KRS 4.6.2 Page No. 15/ Item No. 4.31/ PWD SR 2014-15	sqm							
	for drain	1x4	4	150.00		0.80	480.00		
		1x4	4	40.00		0.80	128.00		
		2x4	8	70.00		0.80	448.00		
	side walls	5x4	20	7.00		0.80	126.00		
	deck	5x1	5	7.00	1.20		42.00		
							1224.00	292.68	358240.00
	Basic Rate	271.00							
	Area Weightage @ 8%	21.85							
	Total	292.68							
8	RCC Precast covering slab for drain (10cm thick)	sqm							
	for rcc drain		1	150.00		0.90	135.00		
			1	40.00		0.90	36.00		
			2	70.00		0.90	126.00		
	for existing drain		1	110.00	1.20		132.00		
							429.00	1498.00	642642.00
	Rate Approved by BBMP	1498.00							
9	KSRB M400-6.1: construction of granular sub base providing close graded material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. plant Mix method, grading I / Item No. 20.4. No. 151, I SR 2014-15	cum							
	widening portion		2	200.00	2.00	0.15	120.00		
							120.00	1391.04	166926.00
	Basic Rate	1285.00							
	Area Weightage @ 8%	103.04							
	Total	1391.04							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
10	KSRRS M400-17: Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specification NO. 405, No. 154, item No 20.18 SR 2014-15	cum							
			2	200.00	2.00	0.20	160.00		
							160.00	1438.56	230170.00
	Basic Rate	1332.00							
	Area Weightage @ 8%	106.56							
	Total	1438.56							
11	KSRRB M500-6, providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WBM, WMM including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH specification NO. 502, No. 157 item No 21.6 SR 2014-15	sqm							
			2	200.00	2.00		800.00		
							800.00	35.21	28166.00
	Basic Rate	32.60							
	Area Weightage @ 8%	2.61							
	Total	35.21							

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
12	KSRRB 500-11: Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50 / 75mm compacted thickness with 3.0% bitumen but excluding cost of primer / tack coat with lead upto 1km including cost of all materials, labour, HOM of machines complete as per specifications. MORTH chapter 5, using 40/60 TPH capacity HMP with Mechanical Paver Gr-4 (60 mm to 100mm) with 3.1% VG-30 Bitumen No. 158/ Item No. 21.11.5/ PWD SR 2014-15	cum							
			2	200.00	1.80	0.050	36.00		
							36.00	6624.72	238490.00
	Basic Rate	6134.00							
	Area Weightage @ 8%	480.72							
	Total	6624.72							
13	KSRRB 500-7: providing and applying tack coating 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding clearing of road surface) including cost of all materials, labour, HOM of machines complete as per specifications. MORTH chapter 5, No. 157/ Item No. 21.7/ SR 2014-15	sqm							
			2	200.00	2.00		800.00		
	Basic Rate	17.35					800.00	18.74	14990.00
	Area Weightage @ 8%	1.39							
	Total	18.74							

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
14	KSRRB M500-18: providing and laying Semidense bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specification clause No. 508 using 40-60 TPH capacity HMP with mechanical paver grading 11 (25-30mm) with 5% CRMB -55 grade, No 150/ Item No 21.21.6 SR 2014-15	cum	2	200.00	2.00	0.025	20.00		
	Basic Rate	10066.00					20.00	10671.28	217426.00
	Area Weightage @ 8%	805.28							
	Total	10871.28							
							Sub Total		4461696.00
15	KRIDL Charges + Labourcess 11%								490787.00
16	1% of Quality control charges								44517.00
17	Miscellaneous charges								1800.00
	Total								4999000.00
(Rupees Forty nine Lakhs ninty nine thousand Only)									

CERTIFICATE

- 1 The work spot has been inspected and the work is found necessary.
- 2 This estimate is prepared as per C.S.R. of 2014-15.
- 3 The provisions were made in this estimate are necessary and adequate.
- 4 This works come under G.B.M.P. limits.

Rameshwaraj
Assistant Engineer

W
Executive Engineer
Yelahanka Division
Bangalore-54

W
Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-54

Administrative Sanction for Rs. Technical Sanction
Accorded for Rs "49.99" lakhs
is accorded under head 0190
registered as CE No. 74 DT. 04.12.14 Subject to Conditions contained in enclosed memo No. _____ Dtd. _____
AE/IR TA SE (BTP) CE (BTP)
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Yelahanka Zone
Brihath Samparka Mahanagara Palika
Bangalore 52

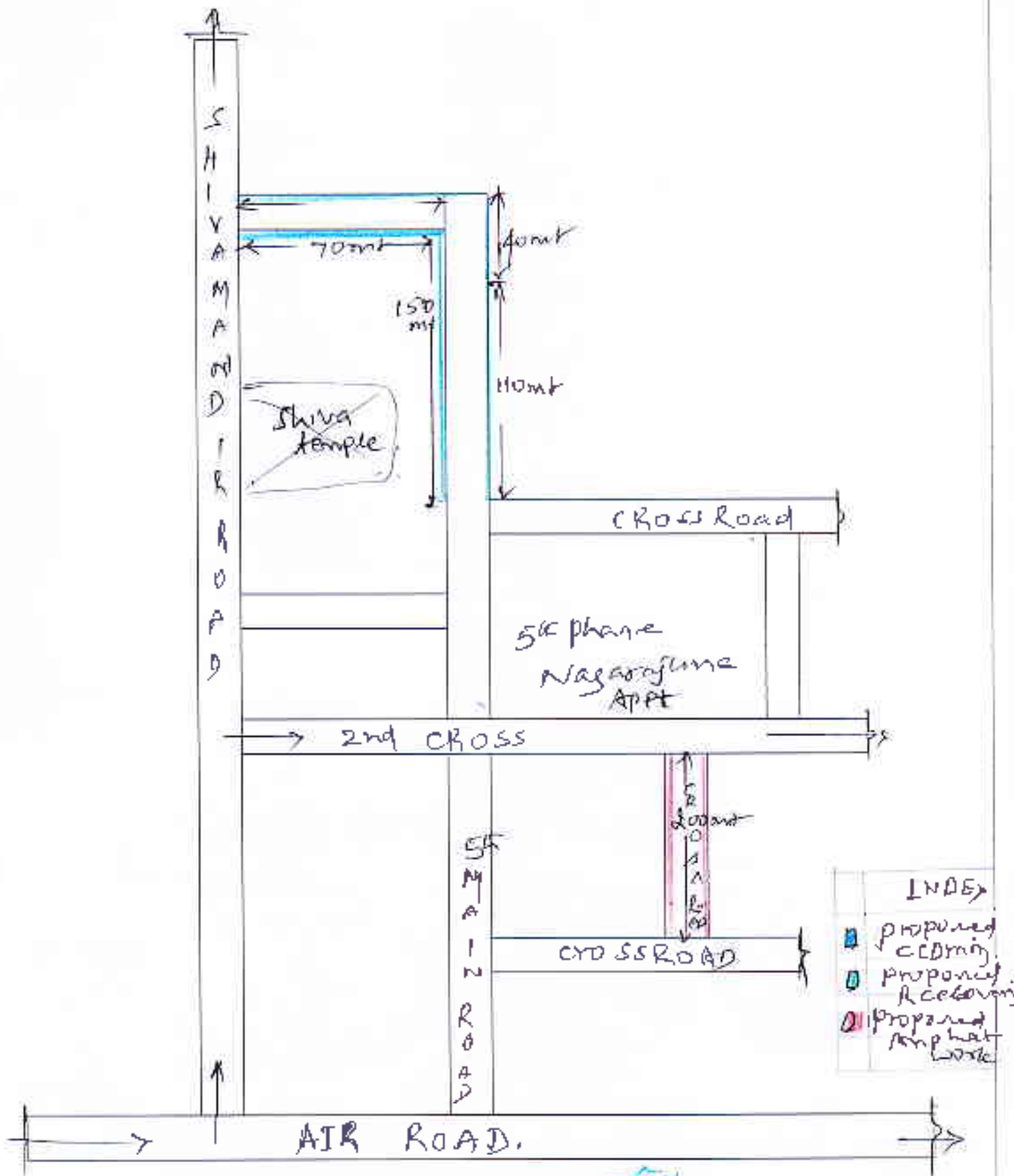
ADMINISTRATIVELY SANCTIONED 49.99 lacs

Rupees Forty nine lakhs ninty nine
thousand only
Under _____

Registered as EE / No. _____ / _____
Subject to conditions contained in enclosed memo EE / No. _____ / _____
Dt. _____ Estimate A/Sanctioned Add (YR) AS/ 1050/14
dated 4-12-2014 Rs. 49.99 lacs

W
Add Commissioner
(Yelahanka Zone)
B&M.P. Bangalore-52

Name of Work: Improvements to drains and providing Asphaltting to main and cross roads of yelahanka new town 5th phase in ward No- 02 of yelahanka Sub division.



Ast. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Ramarejesh
AE